PATENT COOPERATION TREATY

From the: INTERNATIONAL SEARCHING AUTHORITY						
То:	PCT					
WRAY & ASSOCIATES						
Level 4 The Quadrant	WRITTEN OPINION OF THE					
1 William Street	INTERNATIONAL SEARCHING AUTHORITY					
PERTH WA 6000						
	(PCT Rule 43bis.1)					
·	Date of mailing 0 6 MAY 2005 (day/month/year)					
Applicant's or agent's file reference	FOR FURTHER ACTION					
114622	See paragraph 2 below					
International application No. International filing of	late (day/month/year) Priority date (day/month/year)					
PCT/AU2005/000331 9 March 2005	9 March 2004					
International Patent Classification (IPC) or both national classi	·					
n. Cl. ⁷ F16L 15/00, 15/02, 15/04, 15/08, 27/12, 27/0	08, 27/087, 25/12, 55/07, 55/00					
Applicant						
TINGLEWOOD TECHNOLOGIES PTY LTD et	al					
1. This opinion contains indications relating to the following	gitems:					
X Box No. I Basis of the opinion						
Box No. II Priority						
	d to novelty, inventive step and industrial applicability					
Box No. IV Lack of unity of invention						
Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
Box No. VI Certain documents cited						
Box No. VII Certain defects in the international applic	cation					
X Box No. VIII Certain observations on the international	application					
2. FURTHER ACTION						
If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered.						
If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.						
For further options, see Form PCT/ISA/220.						
3. For further details, see notes to Form PCT/ISA/220.						
Name and mailing address of the IPEA/AU	Authorized Officer					
AUSTRALIAN PATENT OFFICE PO BOX 200, WODEN ACT 2606, AUSTRALIA	G.B. NATH					
E-mail address: pct@ipaustralia.gov.au	Telephone No. (02) 6283 2126					
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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/AU2005/000331

Box	Box No. I Basis of the opinion							
1.	1. With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.							
	This opinion has been established on the basis of a translating the following language, which is the land international search (under Rules 12.3 and 23.1(b)).	ation from the original language into guage of a translation furnished for the purposes of						
2.	2. With regard to any nucleotide and/or amino acid sequence d claimed invention, this opinion has been established on the bas	isclosed in the international application and necessary to the sis of:						
	a. type of material	•						
	a sequence listing							
	table(s) related to the sequence listing	·						
	b. format of material							
	in written format							
	in computer readable form							
	c. time of filing/furnishing							
	contained in the international application as filed.	·						
	filed together with the international application in co	•.						
 3. 4. 	filed or furnished, the required statements that the inform in the application as filed or does not go beyond the appl	y of a sequence listing and/or table relating thereto has been nation in the subsequent or additional copies is identical to that ication as filed, as appropriate, were furnished.						
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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/AU2005/000331

Statement		
Statement		VEC
Novelty (N)	Claims 3-8, 10, 12-13, 15-17	YES
	Claims 1-2, 9, 11, 14, 18-20	NO
Inventive step (IS)	Claims 3-8, 10, 15-17	YES
	Claims 1-2, 9, 11-14, 18-20	NO
Industrial applicability (IA)	Claims 1-20	YES
	Claims None	NO

?. Citations and explanations:

Documents:

D1: Derwent Abstract Accession No. 99-291011/25, Class Q67, JP 11094162 A (SEKISUI CHEMICAL INDUSTRIES CO. LTD), 9 April 1999

D2: Derwent Abstract Accession No., 1999-605489/52 Class Q67, JP 11264491A (OSAKA GAS CO. LTD), 28 September 1999

D3: CA 2296195A (HAYNES), 24 May 2001

D4: EP396029 B (MCGRAW), 30 September 1992

D5: US 4998756A (HART), 12 March 1991

2.1 Novelty and Inventive Step:

Novelty:

D1, D3 and D5 are the most relevant documents each of which discloses all the features defined in the independent claim 1 and thus takes away its novelty.

D3 discloses the features of claims 2, 9, 11, 14, 18-20 and thus takes away the novelty of these claims. Inventive Step:

Claims 1-2, 9, 11, 14, 18-20 as above.

Features defined in Claim 12 is disclosed in D5 and hence is considered to lack an inventive step when read in combination. Features of claim 13 is either known in the art or are typical of the devices in the art.

2.2 All the claims conform to the criteria of Industrial Applicability

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/AU2005/000331

Box No. VI	II Cartain	observations on	the international	annlication
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The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

- 1. Claim is not clear at line 3 with regard to "the ends"; which ends do they refer to?
- 2. Claim 10 is not clear at line 1. Presumably there is a typographical error.